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(12) **United States Patent**
Jackson et al.

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(54) **PATIENT POSITIONING SUPPORT
STRUCTURE WITH TRUNK TRANSLATOR**

USPC 5/600, 607, 608, 610, 611, 613, 617
See application file for complete search history.

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ABSTRACT

A patient support structure includes a pair of independently height-adjustable supports, each connected to a patient support. The supports may be independently raised, lowered, rolled or tilted about a longitudinal axis, laterally shifted and angled upwardly or downwardly. Position sensors are provided to sense all of the foregoing movements. The sensors communicate data to a computer for coordinated adjustment and maintenance of the inboard ends of the patient supports in an approximated position during such movements. A longitudinal translator provides for compensation in the length of the structure when the supports are angled upwardly or downwardly. A patient trunk translator provides coordinated translational movement of the patient's upper body along the respective patient support in a caudad or cephalad direction as the patient supports are angled upwardly or downwardly for maintaining proper spinal biomechanics and avoiding undue spinal traction or compression.

11 Claims, 17 Drawing Sheets

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(58) **Field of Classification Search**

CPC A61G 13/12

